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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/608,387	06/30/2003	Haruhiro Yuki	2003_0870A	7963
513	7590 05/03/2006		EXAMINER	
	TH, LIND & PONA	ROY, SIKHA		
2033 K STREET N. W. SUITE 800		ART UNIT	PAPER NUMBER	
WASHINGTON, DC 20006-1021			2879	
			DATE MAILED: 05/03/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
Office Action Summan	10/608,387	YUKI ET AL.			
Office Action Summary	Examiner	Art Unit			
	Sikha Roy	2879			
The MAILING DATE of this communication ap Period for Reply	opears on the cover sheet with	the correspondence address			
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING I Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b)	DATE OF THIS COMMUNICA .136(a). In no event, however, may a reply d will apply and will expire SIX (6) MONTH: tte, cause the application to become ABAN	TION. / be timely filed S from the mailing date of this communication. DONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 08	February 2006	•			
	is action is non-final.	•			
· <u> </u>		nrosecution as to the merits is			
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims		1, 100 0.0. 210.			
4)⊠ Claim(s) <u>14-28</u> is/are pending in the applicati	on				
	4a) Of the above claim(s) is/are withdrawn from consideration.				
5) Claim(s) 19-28 is/are allowed.	with from consideration.				
6)⊠ Claim(s) <u>14-18</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/	or election requirement	•			
	or election requirement.				
Application Papers	•				
9)☐ The specification is objected to by the Examir	ner.				
10)☐ The drawing(s) filed on is/are: a)☐ ac	cepted or b) objected to by	the Examiner.			
Applicant may not request that any objection to the	e drawing(s) be held in abeyance	. See 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the corre	ction is required if the drawing(s)	is objected to. See 37 CFR 1.121(d).			
11) The oath or declaration is objected to by the E	Examiner. Note the attached C	office Action or form PTO-152.			
Priority under 35 U.S.C. § 119	•				
12)⊠ Acknowledgment is made of a claim for foreig a)⊠ All b)□ Some * c)□ None of:	n priority under 35 U.S.C. § 1	19(a)-(d) or (f).			
1. ☑ Certified copies of the priority documer	nts have been received				
3. ☐ Copies of the certified copies of the pri	• •				
application from the International Bure		· · · · · · · · · · · · · · · · · · ·			
* See the attached detailed Office action for a lis	· · · · · · · · · · · · · · · · · · ·	ceived.			
	·				
Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) LInterview Sum Paper No(s)/M	mary (PTO-413) Iail Date			
Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date		mal Patent Application (PTO-152)			
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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on February 8, 2006 has been entered.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 14-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent 6,483,491 to Lee, and JP 2001-006562 to Kasahara et al. and further in view of U.S. Patent 6,525,470 to Amemiya.

Regarding claim 14 Lee discloses (Fig. 6 column 4 lines 26-50) a plasma display panel comprising plurality of cells, a first substrate 100, a display electrode comprising plural parallel-disposed electrodes 111,111' on the first substrate so as to form

discharge gap between two of the plural parallel-disposed electrodes for emitting light, a dielectric layer 120 covering the first substrate and the display electrodes, a plurality of float (auxiliary) electrodes 130 disposed in the cells on the dielectric layer so that the float electrodes are insulated from the display electrode in each cell and the float electrode in each cell being separated from the float electrode in other cell (cell being considered to be discharge space in between two adjacent display electrodes and the address electrode), a protective layer 140 covering the dielectric layer 120, the float electrodes and a second substrate 200 wherein the display electrodes on the first substrate face the second substrate and a plurality of data electrodes 210, 210' disposed on the second substrate and oriented to cross the parallel-disposed display electrode.

Lee does not exemplify the float electrodes being transparent.

Kasahara in same filed of endeavor discloses (Fig. 1 abstract) transparent float electrodes 17 formed in the discharge gap in the middle area of two display electrodes on the front substrate. It is noted the float electrodes being transparent, light emits through the float electrodes and thus improves efficiency.

Therefore it would have been obvious to one of ordinary skill in the art a the time of invention to include transparent float electrodes as taught by Kasahara et al. for the float electrodes of Lee for improving light emitting efficiency.

Referring to claim 14 Lee and Kasahara are silent about the dielectric layer is not covering a part of the discharge gap in each cell and having float electrode disposed there.

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Amemiya in analogous field of plasma display discloses (Figs. 2,3 column 2 lines 43-67) a plasma display panel comprising a first substrate 11, a plurality of parallel display electrodes X,Y so as to form a discharge gap in between, a dielectric layer 14 covering the first substrate, display electrodes and not covering at least a part 21 of the discharge gap G and a protective layer 15 covering the dielectric layer 14 and the discharge gap G. Amemiya further discloses when starting voltage is applied the strength of the electric field is high in the discharge gap G not covered by dielectric layer and thus it is possible to reduce the starting voltage and increase the reliability of the display.

Therefore it would have been obvious to one of ordinary skill in the art a the time of invention to include a part not covered by the dielectric layer and the float electrodes outside the dielectric layer are disposed in the gap not covered by the dielectric layer of plasma display of Lee and Kasahara as taught by Amemiya for reducing the starting voltage and increasing the reliability of the display.

Regarding claim 16 Lee discloses (Fig. 6) the shape of the float electrode is rectangular.

Regarding claim 15,17 and 18, Lee, Kasahara and Amemiya disclose the claimed invention except for the limitation of shape of the float electrode being H shaped for claim 15 (variation of H-shape for claim 17 and variation of rectangle for claim 18). It has been held that a change in shape is generally recognized as being within the level of ordinary skill in the art. It would have been obvious to one having ordinary skill in the art to select the shape of the float electrode in H-shape or variation

Allowable Subject Matter

Claims 19-28 are allowed over the prior art of record.

The following is an examiner's statement of reasons for allowance:

Regarding claim 19, the references of the Prior Art of record fails to teach or suggest a plasma display panel having the combination of the limitations as set forth in claim 19, and specifically comprising the limitation of resistance of the transparent float electrode is higher in area of the float electrode that are closer to the parallel-disposed display electrodes.

Regarding claims 20-23, claims 20-23 are allowable for the reasons given in claim 19 because of their dependency status from claim 19.

Regarding claim 24 the references of the Prior Art of record fails to teach or suggest a plasma display panel having the combination of the limitations as set forth in claim 24, and specifically comprising the limitation of resistance of the transparent float electrode being $10-100M\Omega$.

Claims 25-28 are allowable for the reasons given in claim 24 because of their dependency status from claim 24.

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Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sikha Roy whose telephone number is (571) 272-2463. The examiner can normally be reached on Monday-Friday 8:00 a.m. – 4:30 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimeshkumar D. Patel can be reached on (571) 272-2457. The fax phone number for the organization is (571) 273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Sikhar Ros

Sikha Roy Patent Examiner Art Unit 2879